INDEX TO VOLUME 84

AUTHORS

Adam, John A., Blood Vessel Branching: Beyond the Standard Calculus Problem, 196-207

Alperin, Roger C. and Vladimir Drobot, Golomb Rulers, 48-55

Alsina, Claudi and Roger B. Nelsen, Proof Without Words: Inequalities for Two Numbers Whose Sum Is One, 228

Apostol, Tom M. and Mamikon A. Mnatsakanian, Ellipse to Hyperbola: "With This String I Thee Wed", 83-97

Bremner, Andrew, Positively Prodigious Powers or How Dudeney Done It? 120-125

Brown, Jason I., Erick Knight, and David Wolfe, Parity Party with Picture Proofs: An Odd Checkerboard Problem, 142–149

Chebolu, Sunil K. and Ján Mináč, Counting Irreducible Polynomials over Finite Fields Using the Inclusion-Exclusion Principle, 369–371

Clifton, Cody, David Guichard, and Patrick Keef, How Commutative Are Direct Products of Dihedral Groups? 137–140

 Daileda, Ryan C., see Olofsson, Peter
 Drobot, Vladimir, see Alperin, Roger C.
 Duchnowski, Matthew, Crossword Word Count, 141

Eisenberg, Bennett and Rosemary Sullivan, A Modification of Sylvester's Four Point Problem, 173–184

Farris, Frank A., The Editor's Song, 266–267 Fassett, Jonathon E., Eigenvalues in Filled Julia Sets, 221–227

Frantz, Marc, A Car Crash Solved—with a Swiss Army Knife, 327–338

Furdui, Ovidiu, Series Involving Products of Two Harmonic Numbers, 371–377

Guichard, David, see Clifton, Cody

Hodge, Jonathan K., The Mathematics of Referendum Elections and Separable Preferences, 268–277

Hoffman, John W., H. Ryan Livingston, and Jared Ruiz, A Note on Disjoint Covering Systems—Variations on a 2002 AIME Problem, 211–215

Hurkens, Antonius J. C., Cor A. J. Hurkens, and Gerhard J. Woeginger, How Cinderella Won the Bucket Game (and Lived Happily Ever After), 278–283

Hurkens, Cor A. J., see Hurkens, Antonius

Jakimczuk, Rafael, The Quadratic Character of 2, 126–127

Kayll, P. Mark, Integrals Don't Have Anything to Do with Discrete Math, Do They? 108–119

Keef, Patrick, see Clifton, Cody

Kirby, Matthew and Ronald Umble, Edge Tessellations and Stamp Folding Puzzles, 283–289

Knight, Erick, see Brown, Jason I.
Kodokostas, Dimitrios, Letter to the Editor,
396

Krylov, Nikolai A. and Edwin L. Rogers, Folding Noneuclidean Strips of Paper, 289–294

Kubicka, Ewa and Grzegorz Kubicki, Choosing Rarity: An Exercise in Stopping Times, 42–48

Kubicki, Grzegorz, see Kubicka, Ewa Langley, Thomas, David Levitt, and Joseph Rower, Two Generalizations of the 5/8 Bound on Commutativity in Nonabelian Finite Groups, 128–136

Latulippe, Joe and Jennifer Switkes, "Even With THAT Step Size?", 377–385

Lengvárszky, Zsolt, Convexity and Center of Mass, 215–221

Levitt, David, see Langley, Thomas Levrie, Paul, Stirred, Not Shaken, by Stirling's Formula, 208–211

Livingston, H. Ryan, see Hoffman, John W. Lopez, Manuel and James Marengo, An Upper Bound for the Expected Difference Between Order Statistics, 365–369

Mabry, Rick, Crosscut Convex Quadrilaterals, 16–25 Marengo, James, see Lopez, Manuel Markowsky, Greg, Pascal's Hexagon

Markowsky, Greg, Pascal's Hexagon Theorem Implies the Butterfly Theorem, 56-62

Mena, Robert and Will Murray, Markov Chains for Collaboration, 3-15

INDEX TO VOLUME 84

AUTHORS

Adam, John A., Blood Vessel Branching: Beyond the Standard Calculus Problem, 196-207

Alperin, Roger C. and Vladimir Drobot, Golomb Rulers, 48-55

Alsina, Claudi and Roger B. Nelsen, Proof Without Words: Inequalities for Two Numbers Whose Sum Is One, 228

Apostol, Tom M. and Mamikon A. Mnatsakanian, Ellipse to Hyperbola: "With This String I Thee Wed", 83-97

Bremner, Andrew, Positively Prodigious Powers or How Dudeney Done It? 120-125

Brown, Jason I., Erick Knight, and David Wolfe, Parity Party with Picture Proofs: An Odd Checkerboard Problem, 142–149

Chebolu, Sunil K. and Ján Mináč, Counting Irreducible Polynomials over Finite Fields Using the Inclusion-Exclusion Principle, 369–371

Clifton, Cody, David Guichard, and Patrick Keef, How Commutative Are Direct Products of Dihedral Groups? 137–140

 Daileda, Ryan C., see Olofsson, Peter
 Drobot, Vladimir, see Alperin, Roger C.
 Duchnowski, Matthew, Crossword Word Count, 141

Eisenberg, Bennett and Rosemary Sullivan, A Modification of Sylvester's Four Point Problem, 173–184

Farris, Frank A., The Editor's Song, 266–267 Fassett, Jonathon E., Eigenvalues in Filled Julia Sets, 221–227

Frantz, Marc, A Car Crash Solved—with a Swiss Army Knife, 327–338

Furdui, Ovidiu, Series Involving Products of Two Harmonic Numbers, 371–377

Guichard, David, see Clifton, Cody

Hodge, Jonathan K., The Mathematics of Referendum Elections and Separable Preferences, 268–277

Hoffman, John W., H. Ryan Livingston, and Jared Ruiz, A Note on Disjoint Covering Systems—Variations on a 2002 AIME Problem, 211–215

Hurkens, Antonius J. C., Cor A. J. Hurkens, and Gerhard J. Woeginger, How Cinderella Won the Bucket Game (and Lived Happily Ever After), 278–283

Hurkens, Cor A. J., see Hurkens, Antonius

Jakimczuk, Rafael, The Quadratic Character of 2, 126–127

Kayll, P. Mark, Integrals Don't Have Anything to Do with Discrete Math, Do They? 108–119

Keef, Patrick, see Clifton, Cody

Kirby, Matthew and Ronald Umble, Edge Tessellations and Stamp Folding Puzzles, 283–289

Knight, Erick, see Brown, Jason I.
Kodokostas, Dimitrios, Letter to the Editor,
396

Krylov, Nikolai A. and Edwin L. Rogers, Folding Noneuclidean Strips of Paper, 289–294

Kubicka, Ewa and Grzegorz Kubicki, Choosing Rarity: An Exercise in Stopping Times, 42–48

Kubicki, Grzegorz, see Kubicka, Ewa Langley, Thomas, David Levitt, and Joseph Rower, Two Generalizations of the 5/8 Bound on Commutativity in Nonabelian Finite Groups, 128–136

Latulippe, Joe and Jennifer Switkes, "Even With THAT Step Size?", 377–385

Lengvárszky, Zsolt, Convexity and Center of Mass, 215–221

Levitt, David, see Langley, Thomas Levrie, Paul, Stirred, Not Shaken, by Stirling's Formula, 208–211

Livingston, H. Ryan, see Hoffman, John W. Lopez, Manuel and James Marengo, An Upper Bound for the Expected Difference Between Order Statistics, 365–369

Mabry, Rick, Crosscut Convex Quadrilaterals, 16–25 Marengo, James, see Lopez, Manuel Markowsky, Greg, Pascal's Hexagon

Markowsky, Greg, Pascal's Hexagon Theorem Implies the Butterfly Theorem, 56-62

Mena, Robert and Will Murray, Markov Chains for Collaboration, 3–15 Miller, Steven J., Frank Morgan, Edward Newkirk, Lori Pedersen, and Deividas Seferis, *Isoperimetric Sets of Integers*, 37–42

Mináč, Ján, see Chebolu, Sunil K. Minton, Gregory, Three Approaches to a Sequence Problem, 33–37

Mnatsakanian, Mamikon A., see Apostol, Tom M.

Morgan, Frank, see Miller, Steven J. Murray, Will, see Mena, Robert Nelsen, Roger B., see Alsina, Claudi Newkirk, Edward, see Miller, Steven J.

Olofsson, Peter and Ryan C. Daileda, Budding Yeast, Branching Processes, and Generalized Fibonacci Numbers, 163-172

Pedersen, Lori, see Miller, Steven J. Rogers, Edwin L., see Krylov, Nikolai A. Rosentrater, C. Roy, Representational Efficiency, 185–195

Rower, Joseph, see Langley, Thomas Ruiz, Jared, see Hoffman, John W.

Sánchez-Reyes, Javier, Letter to the Editor, 80

Scheufens, Ernst E., From Fourier Series to Rapidly Convergent Series for Zeta(3), 26–32

Schlicker, Steven J., Numbers Simultaneously Polygonal and Centered Polygonal, 339–350

Seferis, Deividas, see Miller, Steven J.
Shirali, Shailesh A., The Bhaskara-Aryabhata
Approximation to the Sine Function,
98–107

Siehler, Jacob A., Depth and Symmetry in Conway's M₁₃ Puzzle, 243–256
Sullivan, Rosemary, see Eisenberg, Bennett
Switkes, Jennifer, see Latulippe, Joe
Todd, Anthony, Letter to the Editor, 396
Umble, Ronald, see Kirby, Matthew
Wagon, Stan, Letter to the Editor, 119
Walser, Hans R., Proof Without Words:
Fibonacci Trapezoids, 295
Woeginger, Gerhard J., see Hurkens, Antonius

Wolfe, David, see Brown, Jason I.
Wood, William E., Squigonometry, 257–265
Zitarelli, David, Hilbert in Missouri, 351–364

TITLES

Bhaskara-Aryabhata Approximation to the Sine Function, The, by Shailesh A. Shirali, 98-107

Blood Vessel Branching: Beyond the Standard Calculus Problem, by John A. Adam, 196–207

Budding Yeast, Branching Processes, and Generalized Fibonacci Numbers, by Peter Olofsson and Ryan C. Daileda, 163–172

Car Crash Solved—with a Swiss Army Knife, A, by Marc Frantz, 327–338

Choosing Rarity: An Exercise in Stopping Times, by Ewa Kubicka and Grzegorz Kubicki, 42–48

Convexity and Center of Mass, by Zsolt Lengvárszky, 215–221

Counting Irreducible Polynomials over Finite Fields Using the Inclusion-Exclusion Principle, by Sunil K. Chebolu and Ján Mináč, 369–371

Crosscut Convex Quadrilaterals, by Rick Mabry, 16-25

Crossword Word Count, by Matthew Duchnowski, 141

Depth and Symmetry in Conway's M₁₃ Puzzle, by Jacob A. Siehler, 243–256

Edge Tessellations and Stamp Folding Puzzles, by Matthew Kirby and Ronald Umble, 283–289 Editor's Song, The, by Frank A. Farris, 266–267

Eigenvalues in Filled Julia Sets, by Jonathon E. Fassett, 221–227

Ellipse to Hyperbola: "With This String I Thee Wed", by Tom M. Apostol and Mamikon A. Mnatsakanian, 83–97

"Even With THAT Step Size?", by Joe Latulippe and Jennifer Switkes, 377–385

Folding Noneuclidean Strips of Paper, by Nikolai A. Krylov and Edwin L. Rogers, 289–294

From Fourier Series to Rapidly Convergent Series for Zeta(3), by Ernst E. Scheufens, 26–32

Golomb Rulers, by Roger C. Alperin and Vladimir Drobot, 48–55

Hilbert in Missouri, by David Zitarelli, 351–364

How Cinderella Won the Bucket Game (and Lived Happily Ever After), by Antonius J. C. Hurkens, Cor A. J. Hurkens, and Gerhard J. Woeginger, 278–283

How Commutative Are Direct Products of Dihedral Groups? by Cody Clifton, David Guichard, and Patrick Keef, 137–140

Integrals Don't Have Anything to Do with Discrete Math, Do They? by P. Mark Kayll, 108-119 Isoperimetric Sets of Integers, by Steven J. Miller, Frank Morgan, Edward Newkirk, Lori Pedersen, and Deividas Seferis, 37–42

Letter to the Editor, by Dimitrios Kodokostas, 396

Letter to the Editor, by Javier Sánchez-Reyes, 80

Letter to the Editor, by Anthony Todd, 396

Letter to the Editor, by Stan Wagon, 119

Markov Chains for Collaboration, by Robert

Mena and Will Murray, 3–15

Mathematics of Referendum Elections and Separable Preferences, The, by Jonathan K. Hodge, 268–277

Modification of Sylvester's Four Point Problem, A, by Bennett Eisenberg and Rosemary Sullivan, 173–184

Note on Disjoint Covering
Systems—Variations on a 2002 AIME
Problem, A, by John W. Hoffman, H. Ryan
Livingston, and Jared Ruiz, 211–215

Numbers Simultaneously Polygonal and Centered Polygonal, by Steven J. Schlicker, 339–350

Parity Party with Picture Proofs: An Odd Checkerboard Problem, by Jason I. Brown, Erick Knight, and David Wolfe, 142–149 Pascal's Hexagon Theorem Implies the Butterfly Theorem, by Greg Markowsky, 56-62

Positively Prodigious Powers or How Dudeney Done It? by Andrew Bremner, 120-125

Proof Without Words: Fibonacci Trapezoids, by Hans R. Walser, 295

Proof Without Words: Inequalities for Two Numbers Whose Sum Is One, by Claudi Alsina and Roger B. Nelsen, 228

Quadratic Character of 2, The, by Rafael Jakimczuk, 126–127

Representational Efficiency, by C. Roy Rosentrater, 185–195

Series Involving Products of Two Harmonic Numbers, by Ovidiu Furdui, 371–377

Squigonometry, by William E. Wood, 257–265

Stirred, Not Shaken, by Stirling's Formula, by Paul Levrie, 208–211

Three Approaches to a Sequence Problem, by Gregory Minton, 33–37

Two Generalizations of the 5/8 Bound on Commutativity in Nonabelian Finite Groups, by Thomas Langley, David Levitt, and Joseph Rower, 128–136

Upper Bound for the Expected Difference Between Order Statistics, An, by Manuel Lopez and James Marengo, 365–369

PROBLEMS

The letters P, Q, and S refer to Proposals, Quickies, and Solutions, respectively; page numbers appear in parentheses. For example, P1874 (230) refers to Proposal 1874, which appears on page 230.

February: P1861–1865; Q1007–1008; S1834 (corrected) and S1836–1840

April: P1866–1870; Q1009–1010; S1841–1845

June: P1871–1875; Q1011–1012; S1846–1850

October: P1876–1880; Q1013–1014; S1851–1855

December: P1881–1885; Q1015–1016; S1856–1860

Abu-Saymeh, Sadi and Mowaffaq Hajja, P1866 (150)

Alt, Arkady, S1840 (69)

Apostolopoulos, George, S1860 (392)

Apostolopoulos, George and Omran Kouba, S1834 (70)

Bataille, Michel, P1874 (230), Q1013 (297), S1857 (389)

Bibak, Khodakhast, P1884 (387)

Bojaxhiu, Elton and Enkel Hysnelaj, S1839 (67), S1847 (232), S1859 (391)

Botsko, Michael W., Q1010 (151), S1850 (235), Q1015 (387)

Butler, Steve, Q1008 (64)

Calcaterra, Robert, S1843 (153), S1848 (233)

Chatadus, Stefan, S1858 (390)

Cheng, Eddie and Jerrold W. Grossman, \$1856 (388)

CMC 328, S1842 (153)

Cowieson, Bill, S1853 (300)

Díaz-Barrero, José and Pantelimon George Popescu, P1878 (297)

Deutsch, Emeric, P1861 (63)

Duncă, Marian, P1869 (151)

Edelman, Alan and Daniel Edelman, P1877 (296)

Edelman, Daniel and Alan Edelman, P1877 (296)

Efthimiou, Costas, S1838 (67)

Falcón, Sergio and Ángel Plaza, S1837 (65)

Fraiwan, Tahani and Mowaffaq Hajja, Q1012 (230)

Furdui, Ovidiu, P1870 (151), Q1014 (297)

Goffinet, Daniel, Q1007 (64)

Goldenberg, Michael and Mark Kaplan, \$1841 (151)

Grossman, Jerrold W. and Eddie Cheng, \$1856 (388)

Hajja, Mowaffaq and Sadi Abu-Saymeh, P1866 (150)

Hajja, Mowaffaq and Tahani Fraiwan, Q1012 (230)

Hall, Timothy, P1882 (386)

Hetmaniok, Edyta, Roman Wituła, and Damian Słota, P1876 (296)

Hysnelaj, Enkel and Elton Bojaxhiu, S1839 (67), S1847 (232), S1859 (391)

Jee, Eunsoo and Seonwoo Kim, S1855 (301)

Just, Erwin, P1865 (64)

Kaplan, Mark and Michael Goldenberg, \$1841 (151)

Kim, Seonwoo and Eunsoo Jee, S1855 (301)

Knuth, Donald E., P1868 (150)

Kouba, Omran, S1849 (234)

Kouba, Omran and George Apostolopoulos, \$1834 (70)

Lampakis, Elias, P1873 (229)

Ligouras, Panagiote, P1883 (386)

McMullen, Matthew, Q1011 (230)

McPolin, Peter, S1846 (231)

Nieto, José Heber, S1854 (300)

Northwestern University Math Problem Solving Group, S1841 (151)

Olšavský, Gregor, P1872 (229)

Pérez, Felipe, S1844 (154)

Perfetti, Paolo, Q1009 (151)

Pité, Éric, P1875 (230)

Plaza, Ángel and César Rodríguez, P1867 (150)

Plaza, Ángel and Sergio Falcón, S1837 (65) Pohoata, Cosmin, P1864 (64), P1871 (229)

Popescu, Pantelimon George and José Díaz-Barrero, P1878 (297)

Rodríguez, César and Ángel Plaza, P1867 (150)

Roelants, Herman, Q1016 (387)

Słota, Damian, Roman Wituła, and Edyta Hetmaniok, P1876 (296)

ShahAli, H. A., P1862 (63), P1885 (387)

Simic, Slavko, P1881 (386)

Simons, John L., S1851 (298)

Stenger, Allen, S1845 (155)

Stephens, Richard, P1880 (297)

Sung, Wong Fook, P1879 (297)

Thong, Duong Viet, P1863 (64)

Tomper, Bob, S1836 (65)

Trif, Tiberiu, S1838 (66)

Wituła, Roman, Edyta Hetmaniok, and Damian Słota, P1876 (296)

Zhou, Li, S1852 (299)